

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A lithium ion capacitor comprising a positive electrode, a negative electrode and an aprotic organic solvent electrolyte solution of a lithium salt as an electrolytic solution, characterized in that a positive electrode active material is a material capable of reversibly supporting lithium ions and/or anions, a negative electrode active material is a material capable of reversibly supporting lithium ions, the negative electrode and/or the positive electrode are doped with lithium ions so that the potential of the positive electrode is at most 2.0 V after the positive electrode and the negative electrode are short-circuited, and the electrolytic solution contains vinylene carbonate or its derivative.

Claim 2 (Original): The lithium ion capacitor according to Claim 1, wherein the positive electrode and/or the negative electrode have a current collector having pores penetrating from the front surface to the back surface, and are doped with lithium ions by electrochemical contact of the negative electrode with a lithium ion supply source.

Claim 3 (Previously Presented): The lithium ion capacitor according to Claim 1, wherein the negative electrode active material has a capacitance per unit weight at least three times that of the positive electrode active material, and the weight of the positive electrode active material is larger than the weight of the negative electrode active material.

Claim 4 (Previously Presented): The lithium ion capacitor according to Claim 1, wherein the electrolytic solution contains vinylene carbonate or its derivative in an amount of at most 5 wt%.

Claim 5 (Previously Presented): The lithium ion capacitor according to Claim 1, wherein the aprotic organic solvent is a mixture of a cyclic carbonate with a chain carbonate.

Claim 6 (Previously Presented): The lithium ion capacitor according to Claim 1, wherein the aprotic organic solvent is a mixture of ethylene carbonate, propylene carbonate and diethyl carbonate.

Claim 7 (Previously Presented): The lithium ion capacitor according to Claim 1, wherein the lithium salt is LiPF₆, LiN(C₂F₅SO₂)₂ or LiN(CF₃SO₂)₂.

Claim 8 (New): The lithium ion capacitor according to Claim 1, wherein the electrolytic solution contains vinylene carbonate.

Claim 9 (New): The lithium ion capacitor according to Claim 1, wherein the electrolytic solution comprises from 0.1-3 wt.% of vinylene carbonate.

Claim 10 (New): The lithium ion capacitor according to Claim 9, wherein the electrolytic solution contains at least one solute selected from the group consisting of LiPF₆ and LiN(C₂F₅SO₂)₂.

Claim 11 (New): The lithium ion capacitor according to Claim 9, wherein the electrolytic solution further comprising one or more selected from the group consisting of ethylene carbonate, diethyl carbonate, propylene carbonate and methylethyl carbonate.

Claim 12 (New): The lithium ion capacitor according to Claim 1, having a capacity retention of 93.3-94.9% after a lapse of 1,010 hours of voltage application.

Claim 13 (New): The lithium ion capacitor according to Claim 1, wherein the potential of the positive electrode is at most 1.5 V after the positive electrode and the negative electrode are short-circuited.

Claim 14 (New): The lithium ion capacitor according to Claim 1, wherein the potential of the positive electrode is at most 1.0 V after the positive electrode and the negative electrode are short-circuited.

Claim 15 (New): The lithium ion capacitor according to Claim 1, wherein the potential of the positive electrode is from 1.0-2.0 V after the positive electrode and the negative electrode are short-circuited.